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1. A method of performing a table look-up comprising the steps of:
receiving data through an input source;
parsing said data into an index portion and a corresponding bucket
portion;
indexing said index portion to said corresponding bucket portion; and
accessing table information stored in a look-up table using said bucket
portion.
 2. The method as claimed in claim 1 wherein said step of indexing said
index portion to said bucket portion is the step of linearly indexing said index
portion to said bucket portion.
 3. The method as claimed in claim 1 wherein said step of indexing said
index portion to said bucket portion is the step of XOR indexing said index
portion to said bucket portion.
 4. The method as claimed in claim 1 further comprising the step of sorting
said bucket portion.

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5. The method as claimed in claim 1 further comprising the step of binary sorting said bucket portion.

6. The method as claimed in claim 1 wherein the step of parsing said data into an index portion and a corresponding bucket portion further comprises the step of parsing said index portion so that said index portion will recur when other data is parsed into said index portion and said corresponding bucket portion.

7. The method as claimed in claim 1 further comprising the step of storing information regarding said data in said look-up table as table information when no table information is available using said bucket portion to access table information.

8. A table look-up indexing device comprising:
a receiver that receives incoming data;
a data parser that parses said data into an index portion and a corresponding bucket portion;
an indexer that indexes said index portion to said bucket portion; and
a lookup device that accesses a look-up table using said corresponding bucket portion.

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9. The device as claimed in claim 8 wherein said indexer linearly indexes said index portion to said bucket portion.

10. The device as claimed in claim 8 wherein said indexer XOR indexes said index portion to said bucket portion.

11. The device as claimed in claim 8 further comprising a sorter that sorts said bucket portion.

12. The device as claimed in claim 11 wherein said sorter binary sorts said bucket portion.

13. The device as claimed in claim 1 wherein said data parser parses said index portions into groups such that each said index portion in a group is the same as other index portions in said group.

14. The device as claimed in claim 8 further comprising a storage mechanism that stores information regarding said data in said look-up table as table information when no table information is available using said bucket portion to access table information.

